Performance Data Sheet

AVA5535EXC

General Information

Model	AVA5535EXC	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	240V ~ 50HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	9750	8170					
	Watts	1140	1110					
	Amps	8.27	8.22					
	Lb/h	129	110					
-10	Btu/h	10400	8910	7490				
	Watts	1250	1250	1210				
	Amps	8.63	8.64	8.56				
	Lb/h	136	120	104				
-5	Btu/h	11400	9990	8610	7280			
	Watts	1350	1380	1370	1340			
	Amps	8.94	9.02	9.01	8.93			
	Lb/h	148	133	119	104			
0	Btu/h	12800	11400	10000	8720	7410		
	Watts	1440	1490	1520	1510	1490		
	Amps	9.22	9.36	9.42	9.41	9.32		
	Lb/h	164	151	138	124	111		
5	Btu/h	14500	13200	11800	10400	9070		
	Watts	1520	1600	1650	1680	1680		
	Amps	9.45	9.66	9.80	9.86	9.84		
	Lb/h	184	172	160	148	135		
10	Btu/h	16600	15300	13900	12400	11000	9530	8040
	Watts	1590	1690	1770	1830	1850	1860	1840
	Amps	9.65	9.93	10.1	10.3	10.3	10.3	10.2
	Lb/h	209	198	187	175	162	148	131
15	Btu/h	19100	17700	16200	14700	13200	11600	9940
	Watts	1650	1780	1880	1960	2020	2050	2060
	Amps	9.81	10.2	10.4	10.7	10.8	10.9	10.8
	Lb/h	238	228	218	206	193	178	161
20	Btu/h	21900	20500	18900	17300	15600	13900	12000
	Watts	1700	1850	1980	2090	2170	2230	2270
	Amps	9.93	10.4	10.7	11.0	11.2	11.4	11.4
	Lb/h	271	262	252	240	227	211	193

25	Btu/h	25100	23600	21900	20200	18300	16400	14400
	Watts	1730	1910	2070	2200	2300	2390	2460
	Amps	10.0	10.5	10.9	11.3	11.6	11.8	12.0
	Lb/h	308	300	290	278	264	248	228
30	Btu/h	28700	27000	25200	23300	21300	19100	16900
	Watts	1760	1960	2140	2290	2430	2540	2630
	Amps	10.1	10.6	11.1	11.6	12.0	12.3	12.5
	Lb/h	349	342	332	320	305	287	266
35	Btu/h	32600	30800	28900	26800	24500	22100	19600
	Watts	1780	2000	2200	2380	2540	2670	2790
	Amps	10.1	10.7	11.3	11.8	12.3	12.7	13.0
	Lb/h	395	387	377	364	349	330	307
40	Btu/h	36900	34900	32800	30500	28000	25300	22500
	Watts	1780	2030	2250	2450	2630	2790	2940
	Amps	10.0	10.8	11.4	12.0	12.6	13.1	13.5
	Lb/h	444	436	426	412	395	375	351
45	Btu/h	41500	39400	37000	34500	31700	28800	25700
	Watts	1770	2040	2290	2510	2720	2900	3070
	Amps	9.97	10.8	11.5	12.2	12.8	13.4	13.9
	Lb/h	497	489	478	464	445	423	397
50	Btu/h	46600	44200	41600	38800	35700	32500	29000
	Watts	1760	2040	2310	2560	2780	2990	3180
	Amps	9.86	10.7	11.6	12.3	13.1	13.7	14.3
	Lb/h	554	546	534	518	498	474	445
55	Btu/h	51900	49300	46500	43300	40000	36400	32600
	Watts	1730	2030	2320	2590	2840	3070	3280
	Amps	9.72	10.7	11.6	12.5	13.3	14.0	14.7
	Lb/h	615	606	593	576	554	528	496

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.413627E+04	-7.212632E-01	5.152546E+00	3.125691E+02
C2	8.758090E+01	-2.262565E+01	-4.202192E-02	-1.518629E+00
C3	-1.419247E+02	3.043599E+01	8.367211E-02	-2.687011E+00
C4	1.143617E+01	-9.767139E-02	-9.784685E-04	1.212301E-01
C5	4.759224E+00	4.503974E-01	9.938854E-04	9.399558E-02
C6	-4.102464E-02	-1.640098E-01	-4.173741E-04	1.433067E-02
C7	-5.038565E-04	-1.359355E-04	2.219285E-07	-7.616383E-05
C8	-5.170799E-02	-1.358166E-03	2.520357E-06	-4.271238E-04
C9	-2.447093E-02	5.468110E-04	2.138144E-06	-3.694239E-04
C10	5.164304E-04	1.142453E-04	7.832990E-08	-4.961997E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature